



Dart Hawkesbury
1270 Aberdeen St
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K6A 1K7
Canada

Tel (613) 832-5200

D119-646-012

Job Sheet 166665

5012754
5008760

Part No: D119-646-012

Part Name: AW119 Skidtube with Wearpads - RH



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 10/13/17

Job Tracking No:

Due Date: 11/3/17

Created By: Victoria Michaud-Febrille

Type: Stock

Description:

CHG 005

Customer: Heliswiss Iberica SA (CHELI02)

Hangar 4, Lado Norte, Aeropuerto De Sabadell, Barcelona Sabadell, , 08205 Spain ph:011 34 93 720 6090
fx:34-937-100130.

Note: DWG REV D IPP RevA: New issue DD verified by:EC IPP REV:B 12.11.05 raise to chg002 (ECN 12-675) DD
verf:JLM IPP REV:C 13.03.20 raise to chg003 (ECN 13-534) DD verf:JLM IPP REV:D 14.11.25 IIN REV:C
(ECN 14-628) DD verf:JLM IPP REV:E 17.05.11 AS PER IIN REV.D DD verf:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Due Date	Standard		Workcenter/Supplier	
				Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time
90	Start up Operation	1 Ea	11/3/17	0.00	0.00	Start up container	
100	DC	1 pcs	11/3/17	0.00	0.00	DC	17/11/23/24
110	Packaging	1 pcs	11/3/17	0.00	0.00	Packaging1	
120	QC	1 pcs	11/3/17	0.00	0.00	QC4	SMB
130	Packaging	1 pcs	11/3/17	0.00	0.00	Packaging3	SMB
140	QC21-FG	1 Ea	11/3/17	0.00	0.00	QC21	DAS

Part Op 100 - Photocopy bluefile & type labels per PPP D119-646-012
Descriptions: 130 - Identify and pack for shipping as per PPP D119-646-012

21 NOV 2 3 2017
S-09

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
110-Packaging	✓ AN3C50A 5011532	8	174	0	0
	✓ AN4C6A 5011536	12	114	0	0
	✓ D119-646-041 5008760	1	1	0	0
	✓ D119-646-311 5162485	1	4	0	0
	✓ D2652 5011533	16	744	0	0
	✓ D2712 5012752	12	253	0	0
	✓ D3407-041 5011532	1	15	0	0
	✓ D3417-5 5011532	2	116	0	0
	✓ D3456-1 5012377	1	40	0	0
	✓ D3672-3 5011531	24	2,040	0	0
	✓ D3672-7 5011530	24	387	0	0
	✓ D3883-2 5012376	2	6	0	0
	✓ D3884-2 5011752	2	9	0	0
	✓ MS21043-3 5011529	8	517	0	0
	✓ MS21043-4 5011528	13	797	0	0
	✓ MS21250-05-006 5011527	8	126	0	0
	✓ NAS1149C0332R 5011572	8	2,674	0	0
	✓ NAS1149C0432R 5011570	24	1,500	0	0
	✓ NAS1149C0532R 5011509	8	239	0	0

DQ: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____	DISPOSITION Rework ☐ Scrap ☐	Skid-tube ☐ Machining ☐ Thermoforming ☐	AGAINST DEPARTMENT/PROCESS			
Part No. _____			Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐	Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐	Engineering ☐ Quality ☐ Other ☐	
NCR No. _____			MRB (QSI042) Approval			

Date : _____ Step #: _____

Description Work Order Device: _____

Job No: 166665
 Mfg Date: 11/23/17

Start up Operation
 D119-646-012

PART NO:
 Revision:
 Operation:
 Change No:

Completed By _____

id hand / Supervisor
approval Verification

QC / QA Coordinator
Approval

Root Cause		Positioned Wrong	
Environment ☐	No Re-verification ☐	☐	Outside Dimensions ☐
Design ☐	Operator ☐	☐	Over/Under tolerance ☐
Doc/Data ☐	Offset/Setup ☐	☐	Part Incorrect ☐
Equip/Tooling ☐	Supplier ☐	☐	Part Lost/Missing ☐
Handling/Pre ☐	Training ☐	☐	Part Moved ☐
Material ☐	Use for Testing ☐	☐	Drawing ☐
Internal Transport ☐	Poor Information ☐	☐	Finish ☐
Tribal Knowledge ☐	Rushing ☐	☐	Misread ☐
LOA ☐	Product Improvement ☐	☐	Turning Sequence ☐
Substation ☐	Process Improvement ☐	☐	
Past Expiry Date ☐	Manufacturing Process ☐	☐	
Misidentified ☐	Past Due ☐	☐	
OTHER : _____			

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DART AEROSPACE
 S012754

Part Specifications

Specifications could not be found.

Plex 10/13/17 10:21 AM dart.Michaud-Febrille.Victoria

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

REFERENCE ONLY

6.0 PARTS LIST

6.1 Standard Skidtubes

Item	Qty -011	Qty -012	Qty -111	Qty -112	Qty -211	Qty -212	Qty -041	Qty -141	Qty -151	Qty -241	Qty -251	Qty -311	Part Number	Description
	X												D119-646-011	STANDARD SKIDTUBE INSTALLATION WITH WEARPADS, LH
		X											D119-646-012	STANDARD SKIDTUBE INSTALLATION WITH WEARPADS, RH
			X										D119-646-111	STANDARD SKIDTUBE INSTALLATION WITH FULL LENGTH WEARPLATES & WEARPADS, LH
				X									D119-646-112	STANDARD SKIDTUBE INSTALLATION WITH FULL LENGTH WEARPLATES & WEARPADS, RH
					X								D119-646-211	STANDARD SKIDTUBE INSTALLATION WITH TRAINING WEARPLATES, LH
						X							D119-646-212	STANDARD SKIDTUBE INSTALLATION WITH TRAINING WEARPLATES, RH
	1	1					X						D119-646-041	REPLACEMENT STANDARD SKIDTUBE WITH WEARPADS
			1	1				X					D119-646-141	REPLACEMENT STANDARD SKIDTUBE WITH FULL LENGTH WEARPLATES & WEARPADS
									X				D119-646-151	WEARPLATE KIT STANDARD SKIDTUBE
					1	1				X			D119-646-241	REPLACEMENT STANDARD SKIDTUBE WITH TRAINING WEARPLATES
											X		D119-646-251	TRAINING WEARPLATES STANDARD SKIDTUBE
	1	1	1	1	1	1						X	D119-646-311	GROUND HANDLING KIT
1							1						D3887-041	STANDARD SKIDTUBE ASSY. WITH WEARPAD
20								1					D3887-043	STANDARD SKIDTUBE ASSY. WITH WEARPLATE & WEARPAD
26									1				D3847-043	FWD WEARPLATE ASSY
27									1				D3847-045	CENTER WEARPLATE ASSY
28									1				D3847-047	AFT WEARPLATE ASSY
29									5				D3847-1	WEARPAD
30									1				D3847-11	WEARPAD
31									30				AN3C5A	BOLT
32									30				AN960C10L	WASHER (OR NAS1149C0332R)
40										1			D3887-045	STANDARD SKIDTUBE ASSY. TRAINING WEARPLATE
44											1		D3849-041	FWD TRAINING WEARPLATE ASSY
45											1		D3849-043	AFT TRAINING WEARPLATE ASSY
51											16		D3904-1	WASHER
52											8		AN3C46A	BOLT
53											8		MS21043-3	NUT
60	2		2		2								D3883-1	SADDLE, OUTSIDE, LH
61		2		2		2							D3883-2	SADDLE, OUTSIDE, RH
62	2		2		2								D3884-1	SADDLE, INSIDE, LH
63		2		2		2							D3884-2	SADDLE, INSIDE, RH
64	16	16	16	16	16	16							D2652	BUSHING
65	8	8	8	8	8	8							AN3C50A	BOLT
66	12	12	12	12	12	12							AN4C6A	BOLT
67	8	8	8	8	8	8							MS21250-05006	BOLT
68	8	8	8	8	8	8							AN960C10L	WASHER (OR NAS1149C0332R)
69	24	24	24	24	24	24							AN960C416L	WASHER (OR NAS1149C0432R)
70	8	8	8	8	8	8							AN960C516L	WASHER (OR NAS1149C0532R)

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Revision: D

Date: 17.02.21

Item	Qty -011	Qty -012	Qty -111	Qty -112	Qty -211	Qty -212	Qty -041	Qty -141	Qty -151	Qty -241	Qty -251	Qty -311	Part Number	Description
71	8	8	8	8	8	8							MS21043-3	NUT
72	12	12	12	12	12	12							MS21043-4	NUT
73	12	12	12	12	12	12							D2712	SET SCREW
74	16	16	16	16	16	16							D3672-7	WASHER
75	24	24	24	24	24	24							D3672-3	WASHER
76	8	8	8	8	8	8							D3672-7	WASHER
80	1	1	1	1	1	1							D3407-041	TOW RING
81	2	2	2	2	2	2							D3417-5	WASHER
82	1	1	1	1	1	1							D3456-1	WASHER
83	1	1	1	1	1	1							MS21043-4	NUT
90														
91												2	D3888-041	LUG ASSEMBLY
92												8	D2652	BUSHING
93												4	AN3C46A	BOLT
94												4	AN960C10L	WASHER (OR NAS1149C0332R)
												4	MS21043-3	NUT
*120													MS21250-05048	BOLT
*121													NAS1149C0532R	WASHER
*122													D3672-7	WASHER
*123													MS21043-5	NUT

* SUPPLIED WITH DART CROSSTUBES